

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1533	713/201.ccls.	USPAT	OR	OFF	2006/02/13 18:41
S2	629	713/201.ccls. and java	US-PGPUB; USPAT	OR	OFF	2005/03/08 15:24
S3	63	713/201.ccls. and java and LDAP	US-PGPUB; USPAT	OR	OFF	2005/03/08 15:25
S4	47	713/201.ccls. and java and LDAP and (web adj server\$2)	US-PGPUB; USPAT	OR	ON	2005/03/08 15:26
S5	10	713/201.ccls. and java and LDAP and (web adj server\$2) and ((rule\$2 with valid\$8))	US-PGPUB; USPAT	OR	ON	2005/03/08 15:36
S6	1	"6085030".pn.	US-PGPUB; USPAT	OR	ON	2005/03/08 15:36
S7	204	java and LDAP and (web adj server\$2) and ((rule\$2 with valid\$8))	US-PGPUB; USPAT	OR	ON	2005/03/08 15:36
S8	1	java and LDAP and (web adj server\$2) and ((rule\$2 with valid\$8) with stor\$5 with server\$2)	US-PGPUB; USPAT	OR	ON	2007/09/02 13:43
S9	3	java and (web adj server\$2) and ((rule\$2 with valid\$8) with stor\$5 with server\$2)	US-PGPUB; USPAT	OR	ON	2005/03/09 12:27
S10	0	713/200.ccls. and java with valid\$5 with (function\$5 code\$5)	US-PGPUB; USPAT	OR	ON	2005/03/09 12:28
S11	1	713/200.ccls. and java same valid\$5 with (function\$5 code\$5)	US-PGPUB; USPAT	OR	ON	2005/03/09 12:28
S12	1	"6327652".pn.	USPAT	OR	OFF	2005/03/11 17:00
S13	1	"4319323".pn.	USPAT	OR	OFF	2005/03/11 17:00
S14	29	validation with sequence with (priority level)	USPAT	OR	OFF	2007/09/02 13:42
S15	237	validation near3 sequence	USPAT	OR	OFF	2005/09/01 15:56
S16	7	validation near3 sequence.ab.	USPAT	OR	OFF	2005/09/01 15:56
S17	18	validation near3 sequence and "713"/\$.cdls.	USPAT	OR	OFF	2005/09/01 15:59
S18	0	(access adj list) with (web adj form)	USPAT	OR	OFF	2005/09/01 16:00
S19	0	(validation adj list) with (web adj form)	USPAT	OR	OFF	2005/09/01 16:00
S20	4	(validation adj list) with (form)	USPAT	OR	OFF	2005/09/01 16:03
S21	2	access adj list.ti.	USPAT	OR	OFF	2005/09/01 20:07
S22	0	vpn with timeout with server with client	USPAT	OR	OFF	2005/09/01 20:09

EAST Search History

S23	0	vpn with timeout with server with client	US-PGPUB; USPAT	OR	OFF	2005/09/01 20:09
S24	0	vpn with (timeout time-out time adj out) with server with client	US-PGPUB; USPAT	OR	OFF	2005/09/01 20:09
S25	17	vpn with (timeout time-out time adj out)	US-PGPUB; USPAT	OR	OFF	2005/09/01 20:28
S26	176	firewall with server with database with internet	US-PGPUB; USPAT	OR	OFF	2005/09/01 20:30
S27	1	firewall with server with database with internet.ab.	US-PGPUB; USPAT	OR	OFF	2005/09/01 20:28
S28	181	firewall and internet.ti.	USPAT	OR	OFF	2005/09/01 20:30
S29	64	firewall and internet and database.ti.	USPAT	OR	OFF	2005/09/02 10:44
S30	1	"6813644".pn.	USPAT	OR	OFF	2005/09/02 10:47
S31	756	rosen.in.	US-PGPUB	OR	OFF	2005/09/02 10:47
S32	1	rosen.in. and rekhter.in.	US-PGPUB	OR	OFF	2005/09/02 10:48
S33	0	"6526056".pn.	US-PGPUB	OR	OFF	2005/09/02 10:48
S34	1	"6526056".pn.	US-PGPUB; USPAT	OR	OFF	2005/09/02 10:48
S35	1	"6665662".pn.	USPAT	OR	OFF	2006/02/13 18:41
S36	2	"6665662".pn. "6816864".pn.	USPAT	OR	OFF	2006/02/13 18:44
S37	2	"6718332".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 11:41
S38	2	"5813017".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 11:48
S39	26116	(validat\$4 with (function\$4 method\$4 rul\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 11:48
S40	7633	(validat\$4 with (function\$4 method\$4 rul\$2)) and (java web)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/02 13:45

EAST Search History

S41	3861	(validat\$4 with (function\$4 method\$4 rul\$2)) and (java web) and (data with validat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/02 13:45
S42	162	(validat\$4 with (function\$4 method\$4 rul\$2)) and (java web) and (data with validat\$4) and (hash adj table\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/02 13:47
S43	3	(validat\$4 with (function\$4 method\$4 rul\$2)) and (java web) and (data with validat\$4) and (hash adj table\$2) and (application adj (version tag))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:40
S44	1	(validat\$4 with (function\$4 method\$4 rul\$2)) and (java web) and (data with validat\$4) and (hash adj table\$2) and (application adj (version tag)) and (order with execut\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 17:41
S46	12	(validat\$4 with (function\$4 method\$4 rul\$2)) and (java web) and (data with validat\$4) and (application adj (version tag)) and (order with execut\$4) and data	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 18:01
S47	0	(data adj validat\$\$) with (tiered hiearchical\$4)	USPAT	OR	OFF	2006/02/14 18:39
S48	0	(data adj validat\$\$) with (tiered hiearchical\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/14 18:39
S49	29	(validat\$\$) with (tiered hiearchical\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 11:30
S50	695	(data near3 validat\$4).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 11:30

EAST Search History

S51	24	(data near3 validat\$4).ti. and (execut\$4 near2 (order\$3 sequenc\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 17:49
S52	29	(validat\$4) with (date time) with (telephone near4 service)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:15
S53	183	access\$2 with rule with (telephone phone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 18:16
S54	38	access\$2 with rule with (telephone phone) same (date time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:48
S55	33	validat\$4 with rule same (telephone phone) same (date time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 21:58
S56	990	707/7.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:48
S57	14	S56 and (validat\$4 near3 (data))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 22:08
S58	2113	707/101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:49

EAST Search History

S59	93	707/101.ccls. and (validat\$4 near3 (data))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 22:08
S60	47157	(java)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 19:43
S61	745	(java) and (data adj validat\$6)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 19:44
S62	116	(java) and (data adj validat\$6) same ((hierarch\$5) sequen\$5 order\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 19:45
S63	66	(java) and (data adj validat\$6) same ((hierarch\$5) sequen\$5 order\$4) and (validat\$4 with (sequen\$5 order\$4 hierarch\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 19:45
S64	24	(java) and (data adj validat\$6) same ((hierarch\$5) sequen\$5 order\$4) and (validat\$4 with (sequen\$5 order\$4 hierarch\$5)) and (validat\$4 near3 rul\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/15 20:09
S65	4	"5813017".pn. "5761668".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/16 11:45
S66	2	"6856800".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/22 19:23

EAST Search History

S67	4	"6278783".pn. "6594761".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/22 19:24
S72	2	"6961776".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/29 19:21
S73	1198	707/7.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:49
S74	15	707/7.ccls. and (validat\$4 manipulat\$4) with (string\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 17:13
S75	0	707/7.ccls. and (isbetween)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 16:52
S76	0	719/316.ccls. and (isbetween)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 16:52
S77	566	719/316.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:50
S78	1424	709/202.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 16:54

EAST Search History

S79	11	709/202.ccls. and (validat\$4 manipulat\$4) with (string\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 16:54
S80	475	709/202.ccls. and (java)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:51
S81	383	709/246.ccls. and (java)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 16:55
S82	1729	709/246.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 16:57
S83	0	709/246.ccls. and (isbetween)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:50
S84	0	709/248.ccls. and (isbetween)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 16:55
S85	763	709/248.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:50
S86	2888	707/101.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 16:56

EAST Search History

S87	859	707/101.ccls. and (hierarchica\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 14:01
S88	34	707/101.ccls. and (hierarchica\$4) with (validat\$4 manipulat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 16:56
S89	0	709/246.ccls. and (validat4\$ with rule\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 16:58
S90	98	709/246.ccls. and (data with validat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 17:00
S91	23	709/248.ccls. and (data with validat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 17:00
S92	202	707/101.ccls. and (data with validat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 17:00
S93	38	707/7.ccls. and (data with validat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 17:13
S94	80	validation with sequence with (priority level)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/02 13:42

EAST Search History

S95	80	validation with sequence with (priority level)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/02 13:42
S96	5	java and LDAP and (web adj server\$2) and ((rule\$2 with valid\$8) with stor\$5 with server\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:43
S97	36291	(validat\$4 with (function\$4 method\$4 rul\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/02 13:43
S98	11544	(validat\$4 with (function\$4 method\$4 rul\$2)) and (java web)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/02 13:45
S99	5790	(validat\$4 with (function\$4 method\$4 rul\$2)) and (java web) and (data with validat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/02 13:45
S100	223	(validat\$4 with (function\$4 method\$4 rul\$2)) and (java web) and (data with validat\$4) and (hash adj table\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/02 13:47
S101	59	access\$2 with rule with (telephone phone) same (date time)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:48

EAST Search History

S10 2	1293	707/7.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:48
S10 3	3269	707/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:49
S10 4	1293	707/7.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:49
S10 5	593	719/316.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:50
S10 6	820	709/248.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:50
S10 7	1878	709/246.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:50
S10 8	820	709/248.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:51

EAST Search History

S10 9	1519	709/202.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 13:51
S11 0	119	717/142.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 14:36
S11 1	149	715/508.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 14:36
S11 2	165	715/516.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 14:36
S11 3	1074	715/517.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 14:37
S11 4	10518	S103 S104 S105 S106 S107 S108 S109 S110 S111 S112 S113	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 14:38
S11 5	823	S114 and (validation\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 14:38
S11 6	392	S114 and (validation\$4) and (web internet\$2) adj (server\$2 form\$2 page\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 14:40

EAST Search History

S11 7	43	S114 and (data adj validat\$4) and (web internet) adj (form\$2 page\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 14:41
S11 8	269	S114 and (view) near2 (field class global)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 15:05
S11 9	17	S114 and (view) near2 (field class global) and (hash adj table\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 15:09
S12 0	115	S114 and validation\$2.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 15:09
S12 1	7	S114 and validation\$2.clm. and (view).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 15:11
S12 2	108	((KIRKPATRICK near2 MARK) (BASS near2 MICHAEL) (MORROW near2 DARIN)(STROHMEYER near2 JOHN)(LOPEZ near2 MAURICIO)).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 15:18
S12 3	7	((KIRKPATRICK near2 MARK) (BASS near2 MICHAEL) (MORROW near2 DARIN)(STROHMEYER near2 JOHN)(LOPEZ near2 MAURICIO)).in. and (validation\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 15:18
S12 4	1	((KIRKPATRICK near2 MARK) (BASS near2 MICHAEL) (MORROW near2 DARIN)(STROHMEYER near2 JOHN)(LOPEZ near2 MAURICIO)).in. and (validation\$2).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/04 11:17

EAST Search History

S12 5	1129	bellsouth adj intellectual adj property\$2 adj corporation.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 15:22
S12 6	14	bellsouth adj intellectual adj property\$2 adj corporation.as. and (validation\$2).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/02 15:22
S12 7	334	726/30.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/04 11:17
S12 8	10	726/30.ccls. and (web internet\$2) adj (form\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/04 11:17
S12 9	0	726/30.ccls. and (validat\$4) with ((web internet) adj form)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/04 11:18
S13 0	34	726/30.ccls. and validat\$5.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/04 11:20
S13 1	1	726/30.ccls. and validat\$5.clm. and (view\$2).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/04 11:20


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Relevance scale

1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Shape-based retrieval and analysis of 3D models](#)

Thomas Funkhouser, Michael Kazhdan

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(12.56 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

3 [Fighting the spam wars: A remailer approach with restrictive aliasing](#)

Paweł Gburzynski, Jacek Maitan

February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: [pdf\(162.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present an effective method of eliminating unsolicited electronic mail (so-called *spam*) and discuss its publicly accessible prototype implementation. A subscriber to our system is able to obtain an unlimited number of aliases of his/her permanent (protected) E-Mail address to be handed out to parties willing to communicate with the subscriber. It is also

possible to set up publishable aliases, which can be used by human correspondents to contact the subscriber, while being useless to h ...

Keywords: Electronic mail, privacy, spam

4 Firmato: A novel firewall management toolkit

 Yair Bartal, Alain Mayer, Kobbi Nissim, Avishai Wool

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: .pdf(917.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In recent years packet-filtering firewalls have seen some impressive technological advances (e.g., stateful inspection, transparency, performance, etc.) and wide-spread deployment. In contrast, firewall and security management technology is lacking. In this paper we present *Firmato*, a firewall management toolkit, with the following distinguishing properties and components: (1) an entity-relationship model containing, in a unified form, global knowledge of the sec ...

Keywords: Security policy, firewall, management, model definition language, visualization

5 Pen computing: a technology overview and a vision

 André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: .pdf(5.14 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

6 Web content accessibility guidelines 1.0

 Wendy Chisholm, Gregg Vanderheiden, Ian Jacobs

July 2001 **interactions**, Volume 8 Issue 4

Publisher: ACM Press

Full text available: .pdf(471.98 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Draft report of the Federal Internetworking Requirements Panel, and selected responses

 Diane Fountaine

April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: .pdf(4.15 MB)

Additional Information: [full citation](#), [index terms](#)

8 Reusable software components

Trudy Levine
July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.45 MB\)](#) Additional Information: [full citation](#), [index terms](#)

9 Agents for collecting application usage data over the Internet

David M. Hilbert, David F. Redmiles

May 1998 **Proceedings of the second international conference on Autonomous agents AGENTS '98**

Publisher: ACM Press

Full text available: [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Implementing shared manufacturing services on the World-Wide Web

J. W. Erkes, K. B. Kenny, J. W. Lewis, B. D. Sarachan, M. W. Sobolewski, R. N. Sum

February 1996 **Communications of the ACM**, Volume 39 Issue 2

Publisher: ACM Press

Full text available: [pdf\(404.10 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Decentralized user authentication in a global file system

Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek

October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5

Publisher: ACM Press

Full text available: [pdf\(144.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach to user authentication across administrative domains is for users to prove their identities through a chain of certificates. Certificates allow for general forms of delegation, but they often require more infrastructure than is necessary to sup ...

Keywords: ACL, SFS, authentication, authorization, credentials, file system, groups, users

12 Industrial sessions: big data: The SDSS skyserver: public access to the sloan digital sky server data

Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Raddick, Christopher Stoughton, Jan vandenBerg
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: [pdf\(1.48 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS) data for both astronomers and for science education. This paper describes the SkyServer goals and architecture. It also describes our experience operating the SkyServer on the

Internet. The SDSS data is public and well-documented so it makes a good test platform for research on database algorithms and performance.

13 Reports: The impact of research on middleware technology

 Wolfgang Emmerich, Mikio Aoyama, Joe Sventek
January 2007 **ACM SIGSOFT Software Engineering Notes**, Volume 32 Issue 1

Publisher: ACM Press

Full text available: .pdf(2.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The middleware market represents a sizable segment of the overall Information and Communication Technology market. In 2005, the annual middleware license revenue was reported by Gartner to be in the region of 8.5 billion US Dollars. In this article we address the question whether research had any involvement in the creation of the technology that is being sold in this market? We attempt a scholarly discourse. We present the research method that we have applied to answer this question. We then pr ...

14 Just fast keying: Key agreement in a hostile internet

 William Aiello, Steven M. Bellovin, Matt Blaze, Ran Canetti, John Ioannidis, Angelos D. Keromytis, Omer Reingold
May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: .pdf(324.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe Just Fast Keying (JFK), a new key-exchange protocol, primarily designed for use in the IP security architecture. It is simple, efficient, and secure; we sketch a proof of the latter property. JFK also has a number of novel engineering parameters that permit a variety of tradeoffs, most notably the ability to balance the need for perfect forward secrecy against susceptibility to denial-of-service attacks.

Keywords: Cryptography, denial-of-service attacks

15 Towards a Web based simulation environment

 Peter Lorenz, Thomas J. Schriber, Heiko Dorwart, Klaus-Christoph Ritter
December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**

Publisher: ACM Press, IEEE Computer Society

Full text available: .pdf(638.55 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Individual submissions: The impact of research on middleware technology

 Wolfgang Emmerich, Mikio Aoyama, Joe Sventek
January 2007 **ACM SIGOPS Operating Systems Review**, Volume 41 Issue 1

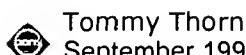
Publisher: ACM Press

Full text available: .pdf(573.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The middleware market represents a sizable segment of the overall Information and Communication Technology market. In 2005, the annual middleware license revenue was reported by Gartner to be in the region of 8.5 billion US Dollars. In this article we address the question whether research had any involvement in the creation of the technology that is being sold in this market? We attempt a scholarly discourse. We present the research method that we have applied to answer this question. We then pr ...

17

Programming languages for mobile code



Tommy Thorn
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: [pdf\(393.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Sun's announcement of the programming language Java more than anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes of mobile code and extract their common characteristics, where security proves to be one of the major concerns. With these characteristics as reference points, we examine six representative languages proposed for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile code, network programming, object orientation, portability, safety, security, telescript

18 Key management and key exchange: Efficient, DoS-resistant, secure key exchange for internet protocols 

 William Aiello, Steven M. Bellovin, Matt Blaze, John Ioannidis, Omer Reingold, Ran Canetti, Angelos D. Keromytis
November 2002 **Proceedings of the 9th ACM conference on Computer and communications security CCS '02**

Publisher: ACM Press

Full text available: [pdf\(118.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe JFK, a new key exchange protocol, primarily designed for use in the IP Security Architecture. It is simple, efficient, and secure; we sketch a proof of the latter property. JFK also has a number of novel engineering parameters that permit a variety of trade-offs, most notably the ability to balance the need for perfect forward secrecy against susceptibility to denial-of-service attacks.

Keywords: cryptography, denial of service attacks

19 Session 1: The Clack graphical router: visualizing network software 

 Dan Wendlandt, Martin Casado, Paul Tarjan, Nick McKeown
September 2006 **Proceedings of the 2006 ACM symposium on Software visualization SoftVis '06**

Publisher: ACM Press

Full text available: [pdf\(793.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present Clack, a graphical environment for teaching students how Internet routers work and other core networking concepts. Clack is a router written as a Java Applet, and routes live network traffic in real-time. Students can look inside the router to see how packets are processed, and watch the dynamics of the queues. They can modify and enhance the router, making it handle packets as they wish. Clack provides multiple views of the operational router including the full network topology, the ...

Keywords: education, networking, router design, software visualization

20 Chimera: hypermedia for heterogeneous software development environments 

 Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead
July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3

Publisher: ACM Press

Full text available: .pdf(864.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Emerging software development environments are characterized by heterogeneity: they are composed of diverse object stores, user interfaces, and tools. This paper presents an approach for providing hypermedia services in this heterogeneous setting. Central notions of the approach include the following: anchors are established with respect to interactive views of objects, rather than the objects themselves; composable, n-ary links can be established between a ...

Keywords: heterogeneous hypermedia, hypermedia system architectures, link servers, open hypermedia systems, software development environments

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1 Computing curricula 2001
September 2001 Journal on Educational Resources in Computing (JERIC)
Publisher: ACM Press
 Full text available: [.pdf\(613.63 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#) [.html\(2.78 KB\)](#)**2 An embedded domain-specific language for type-safe server-side web scripting**

Peter Thiemann

 February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press
 Full text available: [.pdf\(336.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive guarantees due to its pervasive use of type information. WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameteri ...

Keywords: Interactive Web services, Web programming
 3 The <bigwig> project

Claus Brabrand, Anders Møller, Michael I. Schwartzbach

 May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press
 Full text available: [.pdf\(586.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last decade is the gradual change from static to dynamic generation of Web pages. Generating Web pages dynamically in dialog with the client has the advantage of providing up-to-date and

tailor-made information. The development of systems ...

Keywords: Interactive Web services, program analysis

4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Principled design of the modern Web architecture

 Roy T. Fielding, Richard N. Taylor

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: [pdf\(335.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

6 Applications: Using XForms to simplify Web programming

 Richard Cardone, Danny Soroker, Alpana Tiwari

May 2005 **Proceedings of the 14th international conference on World Wide Web**

WWW '05

Publisher: ACM Press

Full text available: [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The difficulty of developing and deploying commercial web applications increases as the number of technologies they use increases and as the interactions between these technologies become more complex. This paper describes a way to avoid this increasing complexity by re-examining the basic requirements of web applications. Our approach is to first separate client concerns from server concerns, and then to reduce the interaction between client and server to its most elemental: parameter passing. ...

Keywords: J2EE, MVC, Web application, XForms, XMLBeans, eclipse, visual builder

7 Extending Java for high-level Web service construction

 Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems**

(TOPLAS), Volume 25 Issue 6

Publisher: ACM Press

Full text available: [pdf\(947.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

8 [Frontmatter \(TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward\)](#)



July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.19 MB\)](#) Additional Information: [full citation](#), [index terms](#)



9 [Tools and approaches for developing data-intensive Web applications: a survey](#)



 Piero Fraternali
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: [pdf\(524.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillary diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and character ...

Keywords: HTML, Intranet, WWW, application, development

10 [Extraction and Visualization: Webformulate: a web-based visual continual query system](#)



 Jennifer Leopold, Meg Heimovics, Tyler Palmer
May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

Publisher: ACM Press

Full text available: [pdf\(423.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today there is a plethora of data accessible via the Internet. The Web has greatly simplified the process of searching for, accessing, and sharing information. However, a considerable amount of Internet-distributed data still goes unnoticed and unutilized, particularly in the case of frequently-updated, Internet-distributed databases. In this paper we give an overview of *WebFormulate*, a Web-based visual continual query system that addresses the problems associated with formulating tempora ...

Keywords: continual query, visual programming language, visual query system

11 Principled design of the modern Web architecture Roy T. Fielding, Richard N. TaylorJune 2000 **Proceedings of the 22nd international conference on Software engineering ICSE '00****Publisher:** ACM PressFull text available: .pdf(217.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia system. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this paper, we introduce the Representational State Tra ...

Keywords: WWW, software architectural style, software architecture**12 Session 2: secure Web services: Validating a Web service security abstraction by** typing

Andrew D. Gordon, Riccardo Pucella

November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02****Publisher:** ACM PressFull text available: .pdf(210.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An XML web service is, to a first approximation, an RPC service in which requests and responses are encoded in XML as SOAP envelopes, and transported over HTTP. We consider the problem of authenticating requests and responses at the SOAP-level, rather than relying on transport-level security. We propose a security abstraction, inspired by earlier work on secure RPC, in which the methods exported by a web service are annotated with one of three security levels: none, authenticated, or both authen ...

Keywords: Web services, authentication, remote procedure call, type systems**13 Design and implementation of the Web-enabled NIST design repository** Simon Szykman, Ram D. SriramFebruary 2006 **ACM Transactions on Internet Technology (TOIT)**, Volume 6 Issue 1**Publisher:** ACM PressFull text available: .pdf(5.92 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article describes the design and development of a design repository software system. This system is a prototype implementation intended to demonstrate the role of design repositories as part of a vision for the next generation of product development software systems. This research involves not only the creation of a prototype software system, but is part of a broader effort that also includes the development of a core product knowledge representation and that seeks to address terminological ...

14 Data integrity: Web application security assessment by fault injection and behavior monitoring

Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available:  pdf(4.53 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As a large and complex application platform, the World Wide Web is capable of delivering a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

Keywords: black-box testing, complete crawling, fault injection, security assessment, web application testing

15 Information gathering in the World-Wide Web: the W3QL query language and the 

 W3QS system

David Konopnicki, Oded Shmueli

December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.36 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web (WWW) is a fast growing global information resource. It contains an enormous amount of information and provides access to a variety of services. Since there is no central control and very few standards of information organization or service offering, searching for information and services is a widely recognized problem. To some degree this problem is solved by "search services," also known as "indexers," such as Lycos, AltaVista, Yahoo, and others. ...

Keywords: CGI, FORMS, HTML, HTTP, PERL, World-Wide Web, query language, query system

16 A new twist on an old method: a guide to the applicability and use of web 

 experiments in information systems research

Michael R. Wade, Peter Tingling

August 2005 **ACM SIGMIS Database**, Volume 36 Issue 3

Publisher: ACM Press

Full text available:  pdf(297.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A review of the Information Systems literature reveals that experiments are employed infrequently by IS researchers. Further, there is some evidence that the use of experiments is not increasing and may, in fact, be declining. A relatively new approach, the Web experiment, is introduced as a tool for Information Systems researchers to take advantage of the benefits of experimental methods, while avoiding some of the costs. A Web experiment resides on a Web site and can be accessed online through ...

Keywords: experimental research, internet, research methodology, web experiments

17 DDD papers: Domain driven web development with WebJinn 

 Sergei Kojarski, David H. Lorenz

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '03**

Publisher: ACM Press

Full text available: [pdf\(266.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web application development cuts across the HTTP protocol, the client-side presentation language (HTML, XML), the server-side technology (Servlets, JSP, ASP, PHP), and the underlying resource (files, database, information system). Consequently, web development concerns including functionality, presentation, control, and structure cross-cut, leading to tangled and scattered code that is hard to develop, maintain, and reuse. In this paper we analyze the cause, consequence, and remedy for this cros ...

Keywords: JSP, adaptability, aspect-oriented programming (AOP), crosscutting concerns, dynamic pages, generative programming, inter-crosscutting, intra-crosscutting, model-view-controller (MVC), reusability, scattering, struts, tangling, web application, web development, web programming

18 High dynamic range imaging

 Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(20.22 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

19 PP-trust-X: A system for privacy preserving trust negotiations

 A. Squicciarini, E. Bertino, Elena Ferrari, F. Paci, B. Thuraisingham
July 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Trust negotiation is a promising approach for establishing trust in open systems, in which sensitive interactions may often occur between entities with no prior knowledge of each other. Although, to date several trust negotiation systems have been proposed, none of them fully address the problem of privacy preservation. Today, privacy is one of the major concerns of users when exchanging information through the Web and thus we believe that trust negotiation systems must effectively address pr ...

Keywords: Access control, attribute-based access control, automated trust negotiation, credentials, privacy, strategy

20 Model-driven development of Web applications: the AutoWeb system

 Piero Fraternali, Paolo Paolini
October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.94 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended

in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

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Relevance scale **1 The <bigwig> project**

 Claus Brabrand, Anders Møller, Michael I. Schwartzbach
 May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(586.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last decade is the gradual change from static to dynamic generation of Web pages. Generating Web pages dynamically in dialog with the client has the advantage of providing up-to-date and tailor-made information. The development of systems ...

Keywords: Interactive Web services, program analysis

2 Defending against an Internet-based attack on the physical world

 Simon Byers, Aviel D. Rubin, David Kormann
 August 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(863.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We discuss the dangers that scalable Internet functionality may present to the real world, focusing upon an attack that is simple, yet can have great impact, which we believe may occur quite soon. We offer and critique various solutions to this class of attack and hope to provide a warning to the Internet community of what is currently possible. The attack is, to some degree, a consequence of the availability of private information on the Web, and the increase in the amount of personal informati ...

Keywords: Internet threats, automated attacks, cybercrime

3 An embedded domain-specific language for type-safe server-side web scripting

 Peter Thiemann
 February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available:  pdf(336.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive guarantees due to its pervasive use of type information. WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameteri ...

Keywords: Interactive Web services, Web programming

4 Second international workshop on model driven web engineering (MDWE'06): 

 Formalizing and validating UML architecture description of web systems

Yujian Fu, Zhijiang Dong, Xudong He

July 2006 **Workshop proceedings of the sixth international conference on Web engineering ICWE '06**

Publisher: ACM Press

Full text available:  pdf(134.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web systems are self-descriptive software components which can automatically be discovered and engaged, together with other web components, to complete tasks over the Internet. Unified Modeling Language (UML), a widely accepted object-oriented system modeling and design language, and adapted for software architecture descriptions for several years, has been used for the web system description recently. However, it is hard to detect the system problems, such as correctness, consistency etc., of t ...

Keywords: UML architecture description, petri nets, software architecture model, temporal logic, verification and validation

5 Computer-supported cooperative work in design: On-the-fly web content integrity 

 check boosts users' confidence

Soroush Sedaghat, Josef Pieprzyk, Ehsan Vossough

November 2002 **Communications of the ACM**, Volume 45 Issue 11

Publisher: ACM Press

Full text available:  pdf(182.67 KB)  html(25.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Malicious attacks on Web servers by intruders and hackers are prime concerns of organizations, administrators of Web sites, as well as users who access them.

6 Service oriented system modeling and application: An approach to web services 

 oriented modeling and validation

Yujian Fu, Zhijiang Dong, Xudong He

May 2006 **Proceedings of the 2006 international workshop on Service-oriented software engineering SOSE '06**

Publisher: ACM Press

Full text available:  pdf(225.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web services provide a language-neutral, loosely-coupled, and platform independent way for linking applications within organizations or enterprises across the Internet. Web services communicate with each other via XML format messages. This paper presents a web service architecture model, Service-Oriented Software Architecture Model (SO-SAM),

which is an extension of SAM (SoftwareArchitecture Model[16]) to the web service applications, as well as a validation of the model and a case study. SO-SAM ...

Keywords: petri nets, service oriented system specification, software architecture model, temporal logic, verification and validation

7 CS265 web network and web site management development of a core course in the Internet technology minor curriculum 

Kevin D. Hufford

April 2001 **Journal of Computing Sciences in Colleges , Proceedings of the sixth annual CCSC northeastern conference on The journal of computing in small colleges CCSC '01**, Volume 16 Issue 4

Publisher: Consortium for Computing Sciences in Colleges

Full text available: .pdf(91.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Internet is rapidly expanding into the world of commerce and communication media. The students in many different college majors, including CS and CIS, have an increasing desire to learn more about the Internet and what, where, when, why and how it is used. The question that they have is "How can they get involved and learn about the Internet as it relates to their major field of interest. Our current college students are witnessing a phenomenal effort by organizations of all types (e.g., ...

8 Session 6: Putting declarative programming into the web: translating curry to javascript 

 Michael Hanus

July 2007 **Proceedings of the 9th ACM SIGPLAN international symposium on Principles and practice of declarative programming PPDP '07**

Publisher: ACM Press

Full text available: .pdf(320.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a framework to construct web-oriented user interfaces in a high-level way by exploiting declarative programming techniques. Such user interfaces are intended to manipulate complex data in a type-safe way, i.e., it is ensured that only typecorrect data is accepted by the interface, where types can be specified by standard types of a programming language as well as any computable predicate on the data. The interfaces are web based, i.e., the data can be manipulated with standard web ...

Keywords: curry, functional logic programming, javascript, user interfaces, web programming

9 Data integrity: Web application security assessment by fault injection and behavior monitoring 

 Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available: .pdf(4.53 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As a large and complex application platform, the World Wide Web is capable of delivering a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

Keywords: black-box testing, complete crawling, fault injection, security assessment, web application testing

10 Taxonomy of XML schema languages using formal language theory 

 Makoto Murata, Dongwon Lee, Murali Mani, Kohsuke Kawaguchi
November 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: .pdf(1.34 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

On the basis of regular tree grammars, we present a formal framework for XML schema languages. This framework helps to describe, compare, and implement such schema languages in a rigorous manner. Our main results are as follows: (1) a simple framework to study three classes of tree languages (local, single-type, and regular); (2) classification and comparison of schema languages (DTD, W3C XML Schema, and RELAX NG) based on these classes; (3) efficient document validation algorithms for these cla ...

Keywords: XML, interpretation, schema; tree automaton, validation

11 The architecture of robust publishing systems 

 Marc Waldman, Aviel D. Rubin, Lorrie Faith Cranor
November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: .pdf(680.21 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Internet in its present form does not protect content from censorship. It is straightforward to trace any document back to a specific Web server, and usually directly to an individual. As we discuss below, there are valid reasons for publishing a document in a censorship-resistant manner. Unfortunately, few tools exist that facilitate this form of publishing. We describe the architecture of robust systems for publishing content on the Web. The discussion is in the context of Publius, as that ...

Keywords: Censorship resistance, Web publishing

12 Net technologies: Type-oriented construction of web user interfaces 

 Michael Hanus
July 2006 **Proceedings of the 8th ACM SIGPLAN symposium on Principles and practice of declarative programming PPDP '06**

Publisher: ACM Press

Full text available: .pdf(250.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a new technique for the high-level construction of type-safe web-oriented user interfaces. Our approach is useful to equip applications processing structured data with interfaces to manipulate these data in an efficient and maintainable way. The interfaces are web-based, i.e., the data can be manipulated with standard web browsers without any specific requirements on the client side. In order to support type-safe user interfaces, i.e., interfaces where users can only input ty ...

Keywords: functional logic programming, user interfaces, web programming

13

Session 4: modeling and tools I: Precise wis development 

Francisco Javier Lucas Martínez, Fernando Molina Molina, Ambrosio Toval Álvarez Toval Álvarez, María Valeria De Castro, Paloma Cáceres, Esperanza Marcos
July 2006 **Proceedings of the 6th international conference on Web engineering ICWE '06**

Publisher: ACM Press

Full text available: [pdf\(810.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years, Internet has become the platform that supports most areas in organizations. This fact has led to the appearance of specific tools for the construction of Web Information Systems (WIS). However, in these tools an absence of functionalities for verification and validation (V&V) of the models built has been detected. This work aims to redress this absence with the definition of a strategy for the specification of the models used in the WIS development that can be used with V&V obje ...

Keywords: mda, uml, verification and validation, web information systems

14 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web

Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**

Publisher: ACM Press

Full text available: [pdf\(301.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

15 Factors influencing the adoption of web-based shopping: the impact of trust

Craig Van Slyke, France Belanger, Christie L. Comunale
June 2004 **ACM SIGMIS Database**, volume 35 Issue 2

Publisher: ACM Press

Full text available: [pdf\(264.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Business-to-consumer electronic commerce (e-commerce), one form of which is Web-based shopping, is defined as electronic-based economic transactions conducted between individual consumers and organizations. While this form of e-commerce is forecast to grow rapidly for the foreseeable future, it still represents only a small fraction of total consumer spending. To better take advantage of and be prepared for this economic phenomenon, organizations need to identify and understand factors that may ...

Keywords: diffusion of innovations, electronic commerce, trust, web-based shopping

16 From vending machines to Web sites: mutual assent between man and machine

Juliet M. Moringiello
September 2003 **Proceedings of the 5th international conference on Electronic commerce ICEC '03**

Publisher: ACM Press

Full text available: [pdf\(100.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper compares contracts presented by Web sites with earlier machine-dispensed contracts, focusing on the problems raised by mechanized delivery of terms. The validity of the offeree's assent to standard form contract terms presented in various Internet contracting contexts will be considered in light of older judicial decisions. These cases hold that the offeror using mechanized processes must take account of the reasonable expectations of the offeree as the key factor in order for an acce ...

Keywords: browsewrap, clickwrap, contract, shrinkwrap

17 Reuse library interoperability and the World Wide Web

Shirley V. Browne, James W. Moore

May 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1997 symposium on Software reusability SSR '97**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.16 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



18 Specifying internet applications with DiCons

J. C. M. Baeten, H. M. A. van Beek, S. Mauw

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing SAC '01**

Publisher: ACM Press

Full text available: [pdf\(185.49 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



Keywords: DiCons, distributed consensus, internet applications, language design

19 Reuse library interoperability and the World Wide Web

Shirley V. Browne, James W. Moore

May 1997 **Proceedings of the 19th international conference on Software engineering ICSE '97**

Publisher: ACM Press

Full text available: [pdf\(1.29 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



20 Design of internet services

Al Austelle, Becky Tallon

October 2000 **Journal of Computing Sciences in Colleges , Proceedings of the second annual CCSC on Computing in Small Colleges Northwestern conference , Proceedings of the fourteenth annual consortium on Small Colleges Southeastern conference CCSC '00**, Volume 16 Issue 2

Publisher: Consortium for Computing Sciences in Colleges

Full text available: [pdf\(33.92 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



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